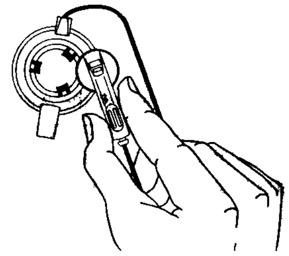
How to communicate "hands free" or with "push to talk" two way radios

Some two way radios have VOX (or voice activated) technology. Others are "push to talk", while some have both. The following are basic instructions for "VOX" and "push to talk" communications.

To Use VOX radios

1) Make sure the radios is off.
2) Plug the helmet harness plugs into the radio's headset/ accessory jacks. (These jacks are often protected by a jack cover. Remove cover and insert the harness plugs into the radio jacks.)
3) Remove earphone piece from its storage compartment on the harness main housing by grasping it in the "neck" area and pulling it out away from the housing. (Do not pull it out by tugging on the wire.)



4) Turn radio on and lower volume before placing ear phone in your ear.
5) Adjust boom microphone to desired position. Note: the mic element should be approximately 1" to 1½" from your mouth.
6) To transmit, speak clearly and steadily into the microphone. To receive, stop talking and allow your partner to speak. Note: you cannot receive while you are transmitting. Wait for other person to stop talking before you transmit.
(Remember, the HELMET HARNESS will only work "hands free" if your radio has VOX circuitry.)

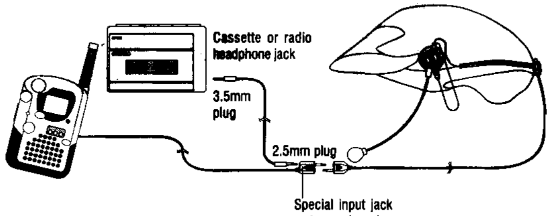
*The X-LINK HELMET HARNESS is manufactured to strict specification. We stand behind the quality of the microphone and the earphone 100%. On the other hand, the HELMET HARNESS will work only as well as your two way radio permits. If the reception of your radio is below standard or the "VOX" circultry does not perform to your expectations, please remember to look at your two way radio quality before you consider the HELMET HARNESS as the source of the trouble.

To use "Push to Talk" radio's

1) Follow same steps as in above "VOX" instructions. Transmit by pressing and holding PTT button (push to talk) down. To receive messages, release the PTT button.

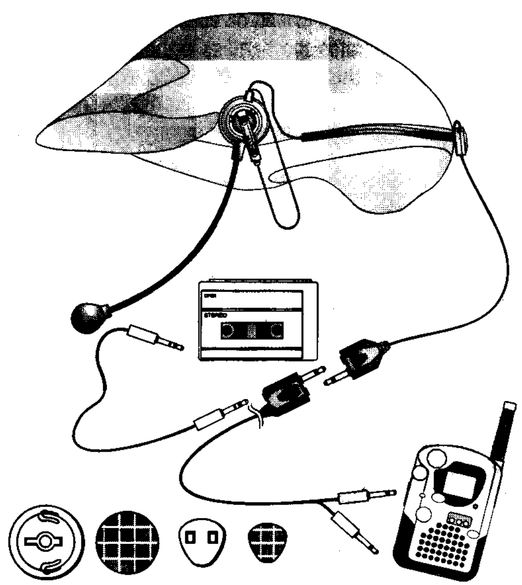
Other Special Features and Benefits of X-Link Helmet Harness

1) Ability to use with more than one helmet. As we pointed out in the introduction, there are spare mounting discs, wire channels and double sided tape. Simply follow the original mounting instructions in this manual on any additional helmet and the harness can now be moved from helmet to helmet with ease.
2) Additional cable and jack to allow the connection of a personal cassette player or radio. (See following diagram.) You can now listen to your favorite music while still being connected with your two way radio. Either riding alone or with a partner this is a unique and welcome feature. The best part is your partner can still transmit to you while you are listening to your cassette or radio.



3) Get the entire gang linked. X Link radios can transmit and receive with as many riders as you wish. Everybody can talk to one another on any Channel you specifiy. If you wish to talk privately with certain people simply switch to another specified channel.

Break Away From the Pack!



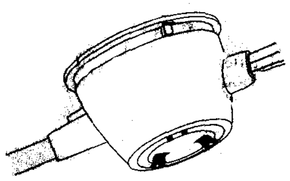
X-LINK HELMET HARNESS is the first product marketed to the sports enthusiast which allows the user the freedom to communicate while enjoying your favorite activity. Simply plug the unit into your two way radio. Specifically designed to fit on Bicycle, Rollerblade and other lightweight helmets, you hardly notice the helmet harness is there. Throughout this manual, we will show you:

- How to attach the harness to your helmet.
- Options on moving the harness from one helmet to another.
- Use the optional feature to plug in your own personal radio or cassette player.

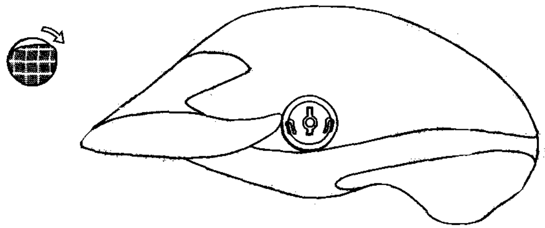
The X-Link Helmet Harness can be used with a wide variety of two way radios. This harness can plug into any radio that has a 3.5mm audio jack and a 2.5mm microphone jack. Most PMR radios such as ALAN, Albrecht ,Midland®, and many others have these types of jacks for headset/ mics.)

Installing X-Link Helmet Harness onto your Helmet

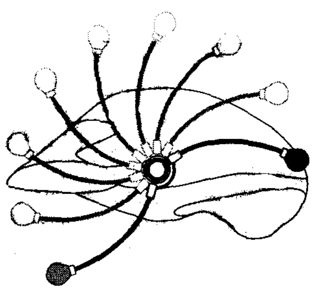
1) The HARNESS can be placed on either side of your helmet. The following illustrates the harness on the left side of the helmet: Remove the MOUNTING DISC from the main housing. This is accomplished by lining up the notches on the mounting disc and housing.



2) Determine where you wish to place the MOUNTING DISC on the helmet. The ideal location is a flat surface usually up above and slightly in front of the ear. Refer to our front cover photographs and illustration below. Remove protective film from the back of the disc and place it onto the helmet with the stem portion pointing up as shown.

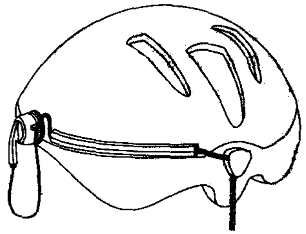


3) Place the main housing unit onto the mounting disc by lining up the notches. Once on, rotate the unit counter clock wise and position the boom mic in its desired location.

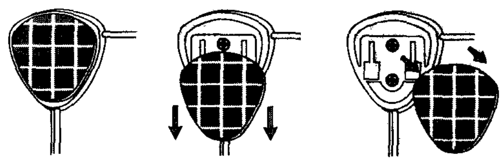


Installing X-Link Helmet Harness onto your helmet

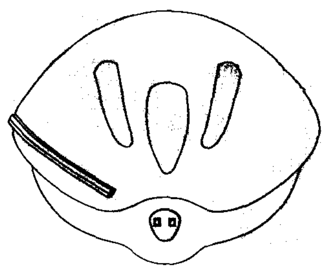
4) You are now ready to attach the WIRE CHANNEL GUIDE to the side of the helmet. The WIRE CHANNEL GUIDE holds the wire in place and channels it to the rear of the helmet. It also helps give the X Link helmet harness that "built in" look. You will need to measure the length as you may need to cut an inch or two off the end. The CHANNEL should start approximately an inch behind the MAIN HOUSING and end approximately 1/2" from the back of the helmet.



5) Attaching the back TRIANGLE HOUSING. This housing relieves strain on the wire and helps channel the wire down the back of the helmet. First remove the MOUNTING TRIANGLE from the TRIANGLE HOUSING. This is accomplished by sliding the MOUNTING TRIANGLE down & pulling it out.

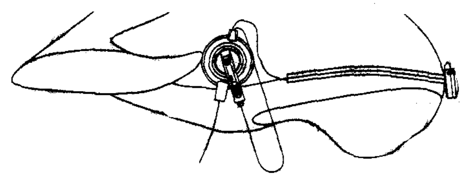


6) Now remove protective film cover and affix the MOUNTING TRIANGLE to the back of the helmet as shown.

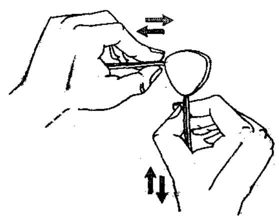


Installing X-Link Helmet Harness onto your helmet

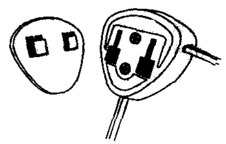
7) Now it is time to adjust the length of the wire from the MAIN HOUSING to the back TRIANGLE HOUSING. Insert the wire from the MAIN HOUSING into the wire channel. Leave approximately 1" of slack so you can continue to rotate the MAIN HOUSING. This slack enables the BOOM MIC / MAIN HOUSING to rotate away from your face while you are not communicating.



8) Now push or pull the wire through the back TRIANGLE HOUSING so you can attach this back piece to the back mounting disc leaving no slack in the wire. This is a two step process as illustrated below.

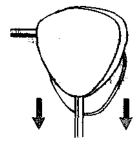


A) Adjust length by first pushing a short length in (or down) and then pulling down (or out).



B) Line up the slots and place the housing onto the mounting disc and slide down into place.

Your helmet harness is now installed and ready to use.



Note : Again we would like to remind the reader that most of these illustrations and instructions show the harness when mounted to the left side of the helmet. The back piece is designed so the wire can go through the left or right side. If you are mounting your harness on the right side of the helmet simply open the tear drop housing by unscrewing the two screws. Change the channel of the wire as shown in illustration. Re-assemble housing by replacing the cover and screws.

